

Name _____

Finding Nemo

A. Biotic vs Abiotic Factors

1. Define “biotic”

2. Give 3 examples of biotic factors in the movie

3. Define “abiotic”

4. Give 3 examples of abiotic factors in the movie

B. Interactions

The following interactions can also be observed in the movie:

- Predation
 - Competition
 - Symbiosis (Parasitism, Mutualism, Commensalism)
5. When Cora and Marlin are chased by the barracuda, this an example of which of the above interactions?

 6. Explain the role of Cora/Marlin vs that of the barracuda in this relationship.

7. When Nemo and Marlin are living in, brushing against, and swimming around the sea anemone, this an example of which of the above interactions?
8. Explain the role of Nemo/Marlin vs that of the sea anemone in this relationship.
9. When Mr. Ray is carrying his students on his back, this an example of which of the above interactions?
10. Explain the role of Mr. Ray vs his students in this relationship.
11. *Cymothoa exigua* is a crustacean that enters at a young age through the gills of fish such as clownfish. By using its dozens of sharp claws it settles onto the tongue of the fish. Once attached it feeds on the blood and mucus, layer by layer nibbling the tongue of the fish. It grows and the living tongue of the fish slowly dies. Eventually it replaces the function of the tongue, but remarkably, the clownfish survives. This is an example of which of the above interactions?
12. Explain the role of the *Cymothoa exigua* crustacean vs a clownfish in this relationship.
13. When the seagulls keep yelling “Mine” when the pelican has Marlin and Dory, this an example of which of the above interactions?
14. On the other hand, all of the fish in the tank at the dentist’s office are able to coexist. How do they avoid the interaction exhibited by the sea gulls?

C. Food Webs

Give at least one example of an organism from the movie for EACH of the following trophic levels AND EXPLAIN why it belongs in that level:

15. Producer

16. Primary consumer

17. Secondary consumer

18. Tertiary consumer

19. Detritus feeder/decomposer

D. Adaptations

EXPLAIN at least one example of adaptations used by organisms from the movie for EACH of the following categories:

20. To obtain food

21. To defend against predators

22. To attract a mate

E. Aquatic Ecosystems

23. In which aquatic zone would you find the anglerfish like the one that uses bioluminescence to attract Marlin and Dory?

24. In what part of the ocean would you find coral reefs like the one where Marlin and Nemo live?

25. In what part of the ocean would you find whales like the one that saved Marlin and Dory?